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Two new Cryptophagidae (Coleoptera) from Qinghai (China)

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A b s t r a c t : One new species of *Cryptophagus* HERBST, 1792 and one new species of *Micrambe* THOMSON, 1868 from *Qinghai* (China) were described.

K e y w o r d s : Cryptophagidae, *Cryptophagus*, *Micrambe*, Palaearctic Region, China, new species.

Introduction

Studying further Cryptophagidae from China results two undescribed species each one of *Cryptophagus* HERBST, 1792 and *Micrambe* THOMSON, 1863. Both species were collected in high altitudes in mountain ranges of China, province Qinghai (2200-2600 m). They are wingless and small species living in litter. Their distribution seems to be not wide and restricted on the mountains of eastern Qinghai.

ESSER (2017a) studied *Micrambe* from China and revalidated one and described three related with *Micrambe bimaculata* (PANZER, 1798). The species described in the present paper is lacking membranous wings and has with small eyes and is quite tiny (1,7 mm).

Material and methods

The material examined is deposited in the following collections:

MFNB.....Museum für Naturkunde, Berlin, Germany

cES.....author's private collection, Berlin, Germany

The morphological studies were conducted using a Euromex DZ 1605 and Euromex BB.1153.PLI. Photographs were created with a ToupCam 14MP (ToupTek).

Body length was measured from the head to the apex of the elytra, length of pronotum in the middle, broadness on the broadest part.

Description of new species

Cryptophagus hongguanus nov.sp.

T y p e m a t e r i a l : Holotype ♂: "China, Qinghai Prov. [CH11-20], road 301 km 140, 63 km ESE Men Yuan, 37°07'41.0"N, 102°16'04.7"E, 2558 m, creek valley with pasture and forest remnants, litter sifted, 5.VII.2011, leg. M. Schülke" [MFNB].

Paratypes: 1♀ with the same data than the holotype [MFNB]; 1♂: "China, Qinghai Prov. [CH11-9e], Daban Shan, 62 km NW Honggu, creek valley, Picea, Populus, Betula forest, 36°51'15-28"N, 102°36'34"-37°07"E, 2236-2350 m, creek valley, litter, dead wood & moss sifted, 10.VII.2011, leg. M. Schülke [cES]; 1♀: "China, Qinghai Prov. [CH11-08a], Daban Shan, 60 km NW Honggu, 36°49'10.7"N, 102°31'22.8"E, 2366-2400 m, mixed forest (Betula, Populus, Picea) dead wood, litter sifted, 11.VII.2011, leg. M. Schülke" [MFNB].

E t y m o l o g y : Named after the Chinese city Honggu, located in the Qinghai province, where three specimens were found.

D e s c r i p t i o n : Male, hind wings absent, 1,9 mm. Reddish-brown, moderately shining (fig. 1). Eyes small but convex with only a small number of ommatidia. Pronotum nearly broad than long, 1,1 times broader than long, broadest in the middle, strongly punctate, margin with one tooth in the middle, anterior callosities prominent, with a well-defined tooth oriented backwards, surface of the callosities visible from above. Margin of pronotum rounded, with rectangular posterior angles. Elytra elongate, nearly oviform, with long and decumbent hairs, no humeral callus developed, strongly punctate in the anterior part, less strong punctate in the posterior part, puncture on elytra more sparse than on pronotum. Legs more stout, tarsi five-segmented, posterior tarsi four-segmented (only in male), anterior tarsomeres 1-4 moderately widened (only in male). Antennae quite stout, club well developed, segments 4-8 more (5-8) or less (4) moniliform, 3 nearly two times longer than broad, 1 and 2 long as broad, 2 moniliform, 1 asymmetric, 9 and 10 slightly transverse, 11 longer and oval. Parameres as fig. 2.

C o m m e n t : *Cryptophagus hongguanus* nov.sp. resembles to *Cryptophagus puetzi* ESSER, 2017 from Sichuan and *Cryptophagus schuelkei* ESSER, 2017 from Yunnan (ESSER, 2017b). Both are wingless with small eyes, stout legs and antennae and elongate elytra. For distinguish them from *C. hongguanus* the examination of the male genitalia is useful. So far known the three species are also distinguished by their distribution in separated mountain ranges.

Cryptophagus hongguanus nov.sp. resembles also to *Micrambe qinghaiensis* nov.sp. (fig. 3) from the same locality in general shape. But the latter is well distinguished by the margin of the pronotum with a few small teeth.

Micrambe qinghaiensis nov.sp.

T y p e m a t e r i a l : Holotype ♂: "China, Qinghai Prov. [CH11-08], Daban Shan, 60 km NW Honggu, 36°49'10.7"N, 102°31'22.8"E, 2366-2400 m, mixed forest (Betula, Populus, Picea) dead wood, litter sifted, 25.VI.2011, leg. M. Schülke" [MFNB].

Paratypes: 1♀ with the same than the holotype [cES]; 1♀: "China, Qinghai Prov. [CH11-08a], Daban Shan, 60 km NW Honggu, 36°49'10.7"N, 102°31'22.8"E, 2366-2400 m, mixed forest (Betula, Populus, Picea) dead wood, litter sifted, 11.VII.2011, leg. M. Schülke" [MFNB].

E t y m o l o g y : Named after the Chinese Qinghai province, where all specimens were found.

D e s c r i p t i o n : Male, hind wings absent, 1,7 mm. Reddish-brown, shining (fig. 3). Eyes small but convex with only a small number of ommatidia. Pronotum 1,3 times broader than long, broadest nearly in the middle, margin straight between middle and anterior angles (callosities) and between middle and posterior angles, strictly narrowed, strongly and moderately dense punctate, margin with a few teeth (8-9), teeth in middle more prominent, anterior callosities moderately developed, without tooth. Elytra elongate, nearly oviform, with long and decumbent hairs, no humeral callus developed, strongly



Fig. 1-2: (1) *Cryptophagus hongguanus* nov.sp., paratype, female; (2) *C. hongguanus* nov.sp., holotype, parameres.



Fig. 3: *Micrambe qinghaiensis* nov.sp., paratype, female.

punctate in the anterior part, less strong punctate in the posterior part, puncture on elytra more sparse than on pronotum. Legs more stout, tarsi five-segmented, posterior tarsi four-segmented (only in male), anterior tarsomeres 1-4 moderately widened (only in male). Antennae quite stout, club well developed, segments 4-8 more (5-8) or less (4) moniliform, 1-3 longer than broad, 1 asymmetric, 9 and 10 slightly transverse, 11 longer and asymmetric.

C o m m e n t : *Micrambe qinghaiensis* nov.sp. is a very small species without hind wings. It resembles to *Micrambe alatauensis* LYUBARSKY, 2000 from Middle Asia by lacking membranous wings and humeral callus. *Micrambe alatauensis* is also small species (1,7-1,8 mm).

Micrambe qinghaiensis nov.sp. resembles also to *Cryptophagus hongguanus* nov.sp. (fig. 3) from the same locality. But the latter is well distinguished by the margin of the pronotum with only one tooth.

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Zusammenfassung

Zwei Arten Cryptophagidae der Gattungen *Cryptophagus* HERBST, 1792 und *Micrambe* THOMSON, 1868 aus der chinesischen Provinz Qinghai werden beschrieben und mit ähnlichen, vermutlich verwandten Arten verglichen.

References

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